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## ABSTRACT OF THE DISCLOSURE

An apparatus for removing a shade from an image includes a principle component analyzing unit performing principle component analysis on a set of face images having various types of shades to generate an eigen space, a storing unit storing the eigen space generated by the principle component analyzing unit, an image input unit receiving as an input a new face image, a projecting unit projecting the face image input through the image input unit to the eigen space stored in the storing unit, and an image producing unit producing a face image with the shade component removed, based on the face image input through the image input unit and the image projected to the eigen space by the projecting unit.